Seq 140155
txt 140156

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AU: 1652
Date:12/02/04
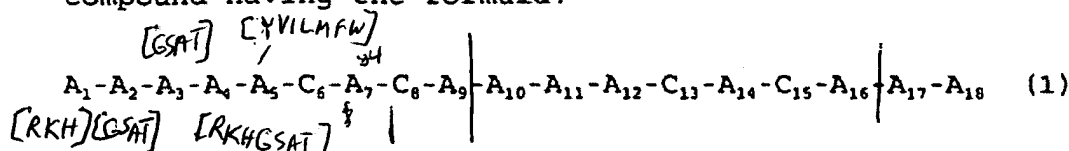Office: Remsen 2B05
Mailbox: Remsen 2C70

Please search the following sequence(s) in commercial and interference databases:

1) Standard search of SEQ ID NO:16 against amino acid databases. Please size limit hits to 20 amino acids.

2) Standard search of SEQ ID NO:16 against nucleic acid databases.

If possible, please search the following in STN:

3)

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1. A purified and isolated or recombinantly produced compound having the formula:

[GSAT] [YVILMFW]

$$A_1-A_2-A_3-A_4-A_5-C_6-A_7-C_8-A_9|A_{10}-A_{11}-A_{12}-C_{13}-A_{14}-C_{15}-A_{16}|A_{17}-A_{18} \quad (1)$$

[RKH][GSAT] [RKHGSAT]

or a pharmaceutically acceptable salt or an N-terminal acylated or C-terminal amidated or esterified form thereof, which is either in a linear form or in a cystine-bridged form, wherein:

each of A_1 and A_9 is independently a basic amino acid;

each of A_2 and A_3 is independently a small amino acid;

each of A_5, A_7, A_{12}, A_{14} and A_{16} is independently a hydrophobic amino acid;

A_4 is a basic or a small amino acid; [RKHGSAT]

A_{10} is a basic or a small amino acid or is proline; [RKHGSATP]

A_{11} is a basic or a hydrophobic amino acid; [RKH YVILMFW]

A_{17} is not present or, if present, is a small amino acid;

A_{18} is not present or, if present, is a basic amino acid;

and

each of C_6, C_8, C_{13} and C_{15} is independently selected from the group consisting of cysteine, a hydrophobic amino acid, a large polar amino acid and a small amino acid. [C YVILMFW NQ GSAT]

or NOT [PDEKRH]

<u>Acidic</u>: Aspartic acid and Glutamic acid; [DE]

<u>Basic</u>: Noncyclic: Arginine, Lysine;
Cyclic: Histidine;   [RKH]

<u>Small</u>: Glycine, Serine, Alanine, Threonine; [GSAT]

<u>Polar/large</u>: Asparagine, Glutamine; [NQ]

<u>Hydrophobic</u>: Tyrosine, Valine, Isoleucine, Leucine, Methionine, Phenylalanine, [YVILMFW]
Tryptophan.

Please save results to diskette.

Thank you very much.

David J. Steadman, Ph.D.
Patent Examiner

method of treating microbial infection claim 12-21

1995

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